AMENDMENTS TO THE CLAIMS

The following is a complete listing of claims with a status identifier in parentheses. These claims supersede all previous listing of claims.

Listing Of Claims

1. (Previously Presented) A light emitting die package comprising:

a substrate comprising an electrically and thermally conductive material and having a first surface;

a thermally conductive, electrically insulating film covering at least a portion of said first surface;

a first conductive element on said insulating film, said conductive element insulated from said substrate by said insulating film;

a second conductive element on said insulating film, said second conductive element spaced apart from said first conductive element and electrically insulated from said substrate by said insulating film wherein at least one of said first and second conductive elements comprises a mounting pad for mounting a light emitting die thereon;

a reflector plate coupled to said substrate and substantially surrounding the mounting pad, said reflector plate defining a reflection surface; and

a lens substantially covering the mounting pad.

2. (Original) The light emitting die package recited in claim 1 further comprising a light emitting diode (LED) mounted on said substrate and connected to the first and second conductive elements.

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3. (Original) The light emitting die package recited in claim 2 wherein the LED is

encapsulated within optically clear polymer.

4. (Original) The light emitting die package recited in claim 1 wherein said first and second

conductive elements comprise metal traces.

5. (Original) The light emitting die package recited in claim 1 wherein said substrate

comprises a metal.

6. (Original) The light emitting die package recited in claim 5, wherein said substrate

comprises a metal selected from the group consisting of copper and aluminum.

7. (Original) The light emitting die package recited in claim 5, wherein said substrate

comprises a copper/aluminum alloy.

8. (Original) The light emitting die package recited in claim 1 wherein said insulating film

comprises a ceramic polymer film.

9. (Previously Presented) The light emitting die package recited in claim 1, wherein said

substrate comprises a second surface opposite said first surface, and further comprising at least one

via hole through said substrate.

10. (Original) The light emitting die package recited in claim 9, wherein the surface of said

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via hole is coated with an insulating film coating.

11. (Cancelled).

12. (Original) The light emitting die package recited in claim 9 wherein said second

surface of said substrate includes a thermally conductive insulating film on at least a portion of said

second surface and wherein said package further comprises a third electrical lead on said second

surface, said third electrical lead is insulated from said substrate by said thermally conductive

insulating film and said third electrical lead is in electrical contact with said conductive trace

through said via hole.

13. (Original) The light emitting die package recited in claim 1 further comprising an

external heat sink coupled to said substrate.

14. (Original) The light emitting die package recited in claim 13 wherein said substrate has

a bottom side plated with metals for coupling with said external heat sink.

15. (Original) The light emitting die package recited in claim 1 wherein at least one

conductive element extends from the mounting pad to a side of said substrate.

16. (Original) The light emitting die package recited in claim 1 wherein said substrate

comprises flanges along at least one side for mechanically engaging said reflector plate.

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17. (Original) The light emitting die package recited in claim 1 wherein said reflector plate substantially surrounds the mounting pad.

18. (Cancelled)

- 19. (Original) The light emitting die package recited in claim 1 wherein said reflector plate comprises material having high thermal conductivity.
- 20. (Original) The light emitting die package recited in claim 1 wherein said reflector plate comprises at least one leg mechanically engaging said substrate for increased thermal transfer.
- 21. (Original) The light emitting die package recited in claim 1 wherein said lens comprises a trough adapted to receive optical chemicals.
- 22. (Original) The light emitting die package recited in claim 1 wherein said lens comprises frequency shifting compounds.
- 23. (Original) The light emitting die package recited in claim 1 wherein said lens comprises diffusant.
- 24. (Original) The light emitting die package recited in claim 1 wherein said lens comprises a phosphor.

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25. (Previously Presented) A light emitting die package comprising:

a metal substrate having a first surface;

an electrically insulating film covering at least a portion of said first surface;

a first conductive trace on said insulating film, said conductive trace insulated from said substrate by said insulating film;

a mounting pad for mounting a light emitting device, said mounting pad electrically connected to said first conductive trace;

a reflector plate coupled to said substrate and substantially surrounding the mounting pad, said reflector plate defining a reflection surface; and

a lens substantially covering the mounting pad.

26. (Cancelled)

27. (Cancelled)